

**SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR  
MANAGING QUALITY OF SERVICE, SESSION AUTHENTICATION  
AND/OR BANDWIDTH ALLOCATION IN A REGIONAL/ACCESS  
NETWORK (RAN)**

**Abstract of the Disclosure**

Quality of Service (QoS) and/or bandwidth allocation is managed in a Regional/Access Network (RAN) that provides end-to-end transport between a Network Service Provider (NSP) and/or an Application Service Provider (ASP), and a  
5 Customer Premises Network (CPN) that includes a Routing Gateway (RG). A first subsystem is configured to manage QoS and/or bandwidth allocation for an access session in the CPN. A second subsystem is configured to manage QoS and/or bandwidth allocation for an application flow in the CPN. Thus, the RAN can independently manage QoS, session authentication and/or bandwidth allocation for an  
10 access session and for an application flow.